### PATENT COOPERATION TREATY

# PCT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference	FOR FURTHER ACTION	See item 4 below
International application No. PCT/IB2006/003511	international filing date (day/montis/year) 27 September 2006 (27.09.2006)	Priority date (day/montl/year) 28 September 2005 (28.09,2005)
International Patent Classification (8th See relevant information in Form P		
Applicant AURIS MEDICAL AG		

\$ <sub>4</sub> .	This international preliminary international Searching Author	report on patentability (Chapter I) is issued by the International Bureau on behalf of the rity under Rule 44 $his$ $1(a)$ .
2.	In the attached shoots, any refe	al of 12 sheets, including this cover sheet:  mence to the written opinion of the International Searching Authority should be mad as a reference report on patentability (Chapter I) instead.
3.	This report contains indication	s relating to the following items:
	Box No. 1	Basis of the report
	Sox No. II	Priority
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	Box No. IV	Lack of unity of invention
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	Box No. VI	Certain documents cited
	Box No. VII	Ceruin defects in the international application
	Box No. VIII	Certain observations on the international application
4.		communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but the makes an express request under Article 23(2), before the expuntion of 30 months from the priority

	Date of issuance of this report 02 April 2008 (02,04,2008)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Cecile Chatel
Facsimile No. 441 22 338 82 70	e-mail; pt13.pct@wipo.int

## PATENT COOPERATION TREATY

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;	ses form f	PCT/ISA/220				TION.	EN OPINION OF T AL SEARCHING AI CT Rule 43 <i>bi</i> s.1)	
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INV. A61K		sification (IPC) or K31/135 A61F				61K31/	4535 A61P27/16 A61K	19.00
Applicant AURIS ME	EDICAL A	3						
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1. This	opinion co	ntains indicati	ons relating t	o the folk	owing items:			
53 p.	ox No. l	Basis of the op	simicos					
	ox No. II	Priority	sn (63).					
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	ox No. IV	Lack of unity of		r santi tæffe	no io noveny, n	i i e co i i e i b u	e arak ano monamandhuc	would
	ox No. V	Reasoned stat	tement under P	Rule 49bis	ा (a)(i) with reg supporting suc	jard to r	ovelty, inventive step or it	ndustriel
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International application No. PCT/B2006/003511

george george	ков	No. I Basis of the opinion
ij.,	Witt	regard to the language, this opinion has been established on the basis of:
	$\boxtimes$	the international application in the language in which it was flied
	Π.	a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).
2,		This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))
3.		regard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and essary to the claimed invention, this opinion has been established on the basis of:
	a, ty	rpe of material:
	Ĩ.	3 a sequence listing
	Ĭ	I table(s) related to the sequence listing
	b, fo	ormat of material:
	ĺ	I on paper
	Į.	Committee of the commit
	c. ti	me of filling/furnishing:
	1	3 contained in the international application as filed.
	; {	I filed together with the international application in electronic form.
		I furnished subsequently to this Authority for the purposes of search.
4,		In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5.	Ado	ittional comments:
,	Box	(No. II Priority
1.		The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43 <i>bis.</i> 1 and 64.1) is the claimed priority date.
2.	8	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis.</i> 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.

3. Additional observations, it necessary:

International application No. PCT/IB2006/003511

	x No. III Non-establishment of opinion with regard to novelty, inventive step and industrial plicability
	e questions whether the claimed invention appears to be novel, to involve an inventive step (to be non vious), or to be industrially applicable have not been examined in respect of
n	the entire international application
	claims Nos. 1-9 (with respect to industrial applicability), 10-21
bed	cause:
Ø	the said international application, or the said claims Nos. <u>1-9 (with respect to industrial applicability)</u> relate to the following subject matter which does not require an international search (specify):
	see separate sheet
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed (specify):
	no international search report has been established for the whole application or for said claims Nos. $\underline{10-21}$
	a meaningful opinion could not be formed without the sequence listing; the applicant did not, within the prescribed time limit:
	☐ furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Fules 13 ter. 1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex G-bis of the Administrative Instructions.
	See Supplemental Box for further details

International application No. PCT/IB2006/003511

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2.			uthority found that the block of the state o		nent of uni	ty of invention is not complied with and chose not to invite					
3.	This	Author	fty considers that th	e requiren	nent of unit	y of invention in accordance with Rule 13.1, 13.2 and 13.3 i					
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2. Citations and explanations

see separate sheet

International application No. PCT/IB2006/003511

#### Box No. VI Certain documents cited

- Certain published documents (Rules 43bis.1 and 70.10)
   and /or
- 2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

#### Re Item II.

Earlier International Application WO-A-2005/094799 (D1) published on 13.10.2005 has the filing date of 29.03.2005. It discloses a method for treating or preventing tinnitus induced by cochlear excitotoxicity in a human, the method comprising administering an N-methyl-D-aspartate (NMDA) receptor antagonist to suppress, reduce or prevent NMDA receptor mediated aberrant activity of the auditory nerve.

The application US 11/236,941 (date of filing 28.09.2005) to which the priority claim of the present invention is directed is therefore not the application disclosing for the **first time** a part of the subject-matter of the present International Application.

As the subject-matter as described above was disclosed in a still earlier application (D1) originating from the same applicant (Auris Medical AG), the application US 11/236,941 is in fact not the "first application" in sense of Article 8 PCT. Therefore the priority claim is invalid for the subject-matter already disclosed in the still earlier application D1 (namely the subject-matter of present claims 1-9) and the document D1 will be considered as forming part of the state of the art within the meaning of Rule 64.1 PCT.

#### Re Item III.

- 1. Claims 1-9 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).
- 2. In reply to the objection to lack of unity, the applicant has not paid additional search fees. The international search report has been established for the first invention only.

No opinion will be given in respect of subject-matter which is not covered by the search report (Rule 66.1(e) PCT).

#### Re Item IV.

The separate inventions/groups of inventions are:

1. Claims: 1-9

Method for treating tinnitus induced by cochlear excitotoxicity comprising administering an NMDA antagonist

2. Claims: 10-21

An electrophysical method for identifying compounds effective in the treatment of tinnitus

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

The problems to be solved by the present invention are:

- 1. to provide medicaments for the treatment of tinnitus
- to provide a new method for the screening of compounds effective in the treatment of tinnitus

The proposed solutions are:

- a. for problem 1: the use of an NMDA receptor antagonist
- b. for problem 2: the method such as defined in claims 10 and 18 and which include the measure of the ensemble spontaneous activity (ESA) of the ear after administration of the test substance, preferably an NMDA receptor antagonist
- Rule 13.1 PCT requires a common inventive concept between a group of inventions

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

international application No.

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claimed in an international patent application. This means that there must be either a common technical problem or at least, if there is more than one technical problem (as in the present case), there must be one single technical concept behind the solutions of these different problems.

The only single technical concept behind the solutions of the different problems 1 and 2 posed above is the NMDA receptor-mediated aberrant activity of the auditory nerve in tinnitus induced by cochlear excitotoxicity and its treatment with NMDA receptor antagonist.

However, the use of NMDA receptor antagonists to suppress excessive NMDA receptormediated signals in tinnitus induced by cochlear excitotoxicity is known in the state of the art.

The document WO 2004/022069 discloses the use of NMDA antagonists (7-chlorokynurenate, D-AP5, MK-801, gacyclidine) for treating an inner ear disorder caused by aberrant glutamate-mediated neurotransmission such as finnitus.

The use of NMDA antagonists (7-chlorokynurenate, MK-801, gacyclidine) for treating tinnitus by topical administration via the round window membrane to the inner ear is also disclosed in XP8054642, XP8054725 and XP8054645.

Consequently, because the use of NMDA receptor antagonists in the treatment of tinnitus has been already described in the prior art, there is no single general inventive concept linking the treatment of tinnitus with an NMDA receptor antagonist and the method for the screening of compounds (in particular NMDA antagonists) for the treatment of tinnitus.

In the present application no further technical feature(s) can be distinguished that can be regarded as a "special technical feature" involved in the technical relationship among the different inventions. Consequently, the present application lacks unity of invention, and the different solutions not belonging to a common inventive concept are identified as the different subjects listed above. Each of the inventions listed is a distinct invention,

characterised by its own special technical feature, defining the contribution which each of the claimed inventions, considered as a whole, makes over the prior art.

As the applicant has not had a search report drawn up on the other inventions, the present opinion will be established on the basis of the invention in respect of which a search has been carried out, in other words the first invention.

#### Re Item V.

Reference is made to the following documents:

- D1: WO 2005/094799 A (AURIS MEDICAL AG [CH]; INST NAT SANTE RECH MED [FR]; GUITTON MATTHIEU) 13 October 2005 (2005-10-13)
- D2: GUITTON MATTHIEU J ET AL: "New pharmacological strategies to restore hearing and treat tinnitus." ACTA OTO-LARYNGOLOGICA. MAY 2004, vol. 124, no. 4, May 2004 (2004-05), pages 411-415, XP008054645 ISSN: 0001-6489
- D3: WO 2004/022069 A (DURECT CORPORATION; PUEL, JEAN-LUC; PUJOL, REMY; CHRISTEN, YVES) 18 March 2004 (2004-03-18)
- D4: GUITTON MATTHIEU J ET AL: "Salicylate induces tinnitus through activation of cochlear NMDA receptors." JOURNAL OF NEUROSCIENCE, vol. 23, no. 9, 1 May 2003 (2003-05-01), pages 3944-3952, XP008054642 ISSN: 0270-6474 cited in the application
- D5: GUITTON M J ET AL: "Cochlear NMDA receptors and tinnitus" AUDIOLOGICAL MEDICINE 2004 UNITED KINGDOM, vol. 2, no. 1, March 2004 (2004-03), pages 3-7, XP008054725 ISSN: 1651-386X
- D6: PUEL JEAN-LUC ET AL: "[Treatment of tinnitus. New perspectives]" PRESSE MEDICALE (PARIS, FRANCE: 1983) 13 JUL 2002, vol. 31, no. 24, 13 July 2002 (2002-07-13), pages 1137-1143, XP008054746 ISSN: 0755-4982
- D7: SIMPSON J J ET AL: "Recent advances in the pharmacological treatment of tinnitus" TRENDS IN PHARMACOLOGICAL SCIENCES 1999 UNITED KINGDOM, vol. 20, no. 1, 1999, pages 12-18, XP008054690 ISSN: 0165-6147
- D8: US-A-6 066 652 (ZENNER ET AL) 23 May 2000 (2000-05-23) cited in the application
- D9: US-A-5 716 961 (SANDS ET AL) 10 February 1998 (1998-02-10) cited in the

application

### 2 NOVELTY (Article 33(2) PCT)

- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is not new in the sense of Article 33(2) PCT.

  Document D1 (examples; claims) discloses a method for treating or preventing tinnitus induced by cochlear excitotoxicity in a human, the method comprising administering a composition comprising an NMDA receptor antagonist to suppress, reduce or prevent NMDA receptor mediated aberrant activity of the auditory nerve.

  The NMDA receptor antagonists disclosed are ketamine, 7-chlorokynurenate, D-2-amino-5-phosphonopentanoic acid (D-AP5), dizocilpine (MK 801) and gacyclidine. The composition is administered topically or locally via the round or oval window membrane to the inner ear or administered topically or locally by device of invasive drug delivery techniques to the inner ear.
- 2.2 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-9 is not new in the sense of Article 33(2) PCT.

  The documents D2 to D5 disclose the use of NMDA antagonists (7-chlorokynurenate, D-AP5, MK-801, gacyclidine) for treating tinnitus by topical administration via the round window membrane to the inner ear.
- 2.3 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1,2,4,7-9 is not new in the sense of Article 33(2) PCT. The documents D6,D7,D8,D9 disclose the use of various NMDA receptor antagonists for treating tinnitus (see the corresponding passages cited in the search report).

- 3 INVENTIVE STEP (Article 33(3) PCT)
- 3.1 Should the Applicant have overcome the objections of lack of novelty raised above, an inventive step could not be acknowledged over D1 to D9 as the present subject-matter of claims 1-9, as far as novel, appears to be an obvious alternative over said documents (Article 33(3) PCT).

NMDA antagonists have been already described in the prior art as being useful in the treatment of tinnitus.

- 4 INDUSTRIAL APPLICABILITY (Article 33(4) PCT)
- 4.1 For the assessment of the present claims 1-9 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

#### Re Item VI.

Since the priority claim is invalid for the subject-matter of present claims 1-9, the document D1 has been considered as forming part of the state of the art within the meaning of Rule 64.1 PCT for said subject-matter (see also section II above).

International application No PCT/IB2006/003511

a. Classification of subject matter INV. A61K31/00 A61K31/135 A61K31/439 A61K31/517 A61K31/662 A61K31/4535 A61P27/16 A61K49/00 According to teternational Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A61K A61P Documentation searched other than minimum documentation to the extent that such documents are included in the teles searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, BIOSIS. EMBASE, SCISEARCH, CHEM ABS Data, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to daim No. P.X 1-9 **GUITTON MATTHIEU J ET AL:** "m-Chlorophenylpiperazine exacerbates perception of salicylate-induced tinnitus in rats." THE EUROPEAN JOURNAL OF NEUROSCIENCE NOV 2005. vol. 22, no. 10, November 2005 (2005-11), pages 2675-2678, XP002452890 ISSN: 0953-816X the whole document PX WO 2005/094799 A (AURIS MEDICAL AG [CH]; 3-0 INST NAT SANTE RECH MED [FR]: GUITTON MATTHIEU) 13 October 2005 (2005-10-13) abstract: claims; examples X Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents : "I" later document published after the international filing date or priority date and not in conflict with the application but alled to understand the principle or theory underlying the "A" document defining the general state of the last which is not considered to be of particular relevance. "E" earlier document but published on or after the international "X" document of particular relevance; the claimed Invention cannot be considered nevel or cannot be considered to "L" decument which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (six specified) involve an inventive step when the document is taken alone \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such duru-"O" document referring to an oral disclosure, use, exhibition or ments, such contribution being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed \*A\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 September 2007 15/01/2008 Name and mailing address of the ISA/ Authorized officer European Palant Office, P.S. 5818 Palentlean 2 NL - 2380 HV Rijswijk Tel. (431-70) 340-2040, Tx. 31 851 opo ni, Hoff, Philippe Fax: (+61~70) 340-3016

International application No
PCT/182006/003511

C(Confined	non), DOCUMENTS CONSIDERED TO BE RELEVANT	LC1\18S000\003211
X Catadorà,	Citation of document, with indication, where appropriate, of the relevant passanges  GUITTON MATTHIEU J ET AL: "New	Poletant to dam ttp. 1-9
	pharmacological strategies to restore hearing and treat tinnitus." ACTA OTO-LARYNGOLOGICA. MAY 2004, vol. 124, no. 4, May 2004 (2004-05), pages 411-415, XP008054645 ISSN: 0001-6489 the whole document	
X	WO 2004/022069 A (DURECT CORPORATION; PUEL, JEAN-LUC; PUJOL, REMY; CHRISTEN, YVES) 18 March 2004 (2004-03-18) page 1, line 1 - line 16 page 3, line 15 - page 4, line 13 page 12, line 8 - line 16 page 14, line 5 - page 16, line 10; claims; examples	7-3
X	GUITTON MATTHIEU J ET AL: "Salicylate induces tinnitus through activation of cochlear NMDA receptors." JOURNAL OF NEUROSCIENCE, vol. 23, no. 9, 1 May 2003 (2003-05-01), pages 3944-3952, XP008054642 ISSN: 0270-6474 cited in the application the whole document	~ (* d)
X	GUITTON M J ET AL: "Cochlear NMDA receptors and tinnitus" AUDIOLOGICAL MEDICINE 2004 UNITED KINGDOM, vol. 2, no. 1, March 2004 (2004-03), pages 3-7, XP008054725 ISSN: 1651-386X the whole document	1-9
X	PUEL JEAN-LUC ET AL: "[Treatment of tinnitus. New perspectives]" PRESSE MEDICALE (PARIS, FRANCE : 1983) 13 JUL 2002, vol. 31, no. 24, 13 July 2002 (2002-07-13), pages 1137-1143, XP008054746 ISSN: 0755-4982 abstract page 1140, left-hand column, paragraph 2 - page 1141, left-hand column, paragraph 1	1,2,4-9

International application No
PCT/TB2006/003511

C(Continua	alson). DOCUMENTS CONSIDERED TO BE RELEVANT	PCI/182006/003511
Category*	Clistion of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SIMPSON J J ET AL: "Recent advances in the pharmacological treatment of tinnitus" TRENDS IN PHARMACOLOGICAL SCIENCES 1999 UNITED KINGDOM, vol. 20, no. 1, 1999, pages 12-18, XP008054690 ISSN: 0165-6147 page 15, right-hand column, last paragraph - page 17, right-hand column, last paragraph paragraph; table 1	1,2,4-9
X	US 6 066 652 A (ZENNER ET AL) 23 May 2000 (2000-05-23) cited in the application the whole document	1,2,4~9
X	US 5 716 961 A (SANDS ET AL) 10 February 1998 (1998-02-10) cited in the application column 1, line 37 - line 67; claims	1,2,4-9
Ä	KALTENBACH J A ET AL: "Plasticity of spontaneous neural activity in the dorsal cochlear nucleus after intense sound exposure" HEARING RESEARCH 2000 NETHERLANDS, vol. 147, no. 1-2, 2000, pages 282-292, XP008054667 ISSN: 0378-5955 page 288, right-hand column, paragraph 1 page 290, left-hand column, paragraph 2 - right-hand column, paragraph 1	19
Ä	KENMOCHI M ET AL: "Salicylate and quinine affect the central nervous system" HEARING RESEARCH 1997 NETHERLANDS, vol. 113, no. 1-2, 1997, pages 110-116, XP008054659 ISSN: 0378-5955 page 114, left-hand column, paragraph 3 - right-hand column, paragraph 1	19

#### International application No. PCT/IB2006/003511

#### INTERNATIONAL SEARCH REPORT

Box No. If Observations where certain claims were found unscarchable (Continuation of Hem 2 of first sheet)
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 1-9 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
Claims Nos.:     because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Glaims Nos.:  because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box No. III Observations where unity at invention is incking (Continuation of item 3 of first sheat)
This international Seanning Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search tees were timely paid by the applicant, this international search report covers alisearchable claims.
2. As all searchable claims could be searched without effort juelitying an additional tees, this Authority did not invite payment of additional fees.
As only some of the required additional search fees were timely paid by the applicant, this international search reportioners only those claims for which fees were paid, specifically claims Nos.:
4. X No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by Calme Nos.:  See annex
Hemark on Protest  The additional search teas were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.  The additional search fees were accompanied by the applicant's profest but the applicable protest
tee was not paid within the time limit specified in the invitation.  No protest accompanied the payment of additional search fees.

### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

Method for treating tinnitus induced by cochlear excitotoxicity comprising administering an NMDA antagonist

2. claims: 10-21

An electrophysical method for identifying compounds effective in the treatment of tinnitus

Information on patent family members

International application No PCT/182096/003511

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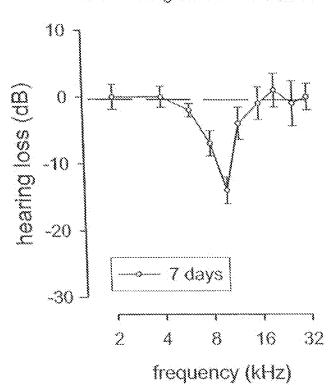
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(54) THE: USE OF AN NMDA RECEPTOR ANTAGONIST THE TREATMENT OF TINNITUS INDUCED BY COCHLEAR EXCIPOIDXICITY

### CAP audiograms after trauma



(57) Abstract: The invention relates to methods for the prevention and/or treatment of tinnitus induced by cochlear excitotoxicity. In these methods, a pharmaceutical composition comprising an NMDA receptor antagonist is administered to an individual in need of such treatment by appropriate devices and/or formulations for local administration to the inner ear. The timitus to be prevented and/or treated may be provoked by acoustic trauma, presbycusis, ischemia, anoxia, treatment with one or more ototoxic medications, sudden deafness, or other cochlear excitotoxic-inducing occurrence. The invention also relates to method for the identification of compounds effective in the treatment and prevention of tinnitus by a novel screening method incorporating an electrophysiological test method.

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ZW), Borssian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Buropaan (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FL, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, BO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).  before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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